



AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-05-26-06 Date: 27-05-17
Customer : Assistant Executive Engineer, Project Sub Division Yelahanka Zone, BBMP, Bangalore.
Address : Project Sub Division Yelahanka Zone, BBMP, Bangalore.
Project Name : Extension of Reva Engineering College road upto 400mts (BBMP limits) Byatarayanapura Assembly Constituency Yelahanka Zone.
Agency : M/S Satya Constructions, No:600, Down Bazar Road, Yelahanka, Bangalore-64.
Customer's Reference : EE(Project)/Ynk Zone/WO/02/15-16
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-05-17
Sample ID No : 2017-05-26-06-01
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 26-05-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.45	—
2	Fineness by Air permeability method (m^2/kg , Min)	265.6	225 m^2/kg , Min
3	Density (gm/cc)	3.22	—
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-05-26-06 Date: 23-06-17
Customer : Assistant Executive Engineer, Project Sub Division Yelahanka Zone, BBMP, Bangalore.
Address : Project Sub Division Yelahanka Zone, BBMP, Bangalore.
Project Name : Extension of Reva Engineering College road upto 400mts (BBMP limits) Byatarayanapura Assembly Constituency Yelhanka Zone.
Agency : M/S Satya Constructions, No:600, Down Bazar Road, Yelahanka, Bangalore-64.
Customer's Reference : EE(Project)/Ynk Zone/WO/02/15-16
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-05-17
Sample ID No : 2017-05-26-06-01
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test : 26-05-17

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	27.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	38.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	54.5N/mm ²	Not less than 53 N/mm ²

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-05-26-06 Date: 29-05-17
Customer : Assistant Executive Engineer, Project Sub Division Yelahanka Zone, BBMP, Bangalore.
Address : Project Sub Division Yelahanka Zone, BBMP, Bangalore.
Project Name : Extension of Reva Engineering College road upto 400mts (BBMP limits) Byatarayanapura Assembly Constituency Yelhanka Zone.
Agency : M/S Satya Constructions, No:600, Down Bazar Road, Yelahanka,
Customer Reference : EE(Project)/Ynk Zone/WO/02/15-16
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-05-17
Sample ID No : 2017-05-26-06-2(a)
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 26-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	243	243	4.9	95.1	90-100
3	10 mm	2486	2729	54.6	45.4	25-55
4	4.75 mm	2134	4863	97.3	2.7	0-10
5	Pan	137	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-05-26-06

Date: 29-05-17

Sample ID No : 2017-05-26-06-2(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.55	—
5	Bulk Density(Compacted) (Kg/l)	1.59	—
6	Water Absorption(%)	0.23	—
7	Aggregate crushing Value(%)	24.2	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.2	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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**TEST REPORT ON COARSE AGGREGATES**

Lab ID : CP-2017-05-26-06 Date: 29-05-17
Customer : Assistant Executive Engineer, Project Sub Division Yelahanka Zone, BBMP, Bangalore.
Address : Project Sub Division Yelahanka Zone, BBMP, Bangalore.
Project Name : Extension of Reva Engineering College road upto 400mts (BBMP limits) Byatarayanapura Assembly Constituency Yelahanka Zone.
Agency : M/S Satya Constructions, No:600, Down Bazar Road, Yelahanka, Bangalore-64.
Customer's Reference : EE(Project)/Ynk Zone/WO/02/15-16
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 26-05-17
Sample ID No : 2017-05-26-06-2(b)
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 26-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	333	333	2.2	97.8	90-100
3	20 mm	5476	5809	38.7	61.3	30-70
4	10 mm	4634	10443	69.6	30.4	10-35
5	4.75 mm	4233	14676	97.8	2.2	0-5
6	Pan	324	15000	100.0	0	---

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Certificate No.: T- 4358

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-05-26-06

Date: 29-05-17

Sample ID No : 2017-05-26-06-2(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.6	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.54	—
5	Bulk Density(Compacted) (Kg/l)	1.56	—
6	Water Absorption(%)	0.24	—

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-05-26-06 Date: 29-05-17

Customer : Assistant Executive Engineer, Project Sub Division Yelahanka Zone, BBMP, Bangalore.

Address : Project Sub Division Yelahanka Zone, BBMP, Bangalore.

Project Name : Extension of Reva Engineering College road upto 400mts (BBMP limits) Byatarayanapura Assembly Constituency Yelhanka Zone.

Agency : M/S Satya Constructions, No:600, Down Bazar Road, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/02/15-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-05-17

Sample ID No : 2017-05-26-06-03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 26-05-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	126	208	20.8	79.2	60-95	75-100	85-100	95-100
4	1.18 mm	155	363	36.3	63.7	30-70	55-90	75-100	90-100
5	600 micron	178	541	54.1	45.9	15-34	35-59	60-79	80-100
6	300 micron	184	725	72.5	27.5	5-20	8-30	12-40	15-50
7	150 micron	176	901	90.1	9.9	0-10	0-10	0-10	0-15
8	Pan	99	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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Certificate No.: T- 4358

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-05-26-06

Date: 29-05-17

Sample ID No : 2017-05-26-06-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.15	—
2	Specific Gravity	2.57	—
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : CP-2017-05-26-06 **Date:** 30-05-17

Customer : Assistant Executive Engineer, Project Sub Division Yelahanka Zone, BBMP, Bangalore.

Address : Project Sub Division Yelahanka Zone, BBMP, Bangalore.

Project Name : Extension of Reva Engineering College road upto 400mts (BBMP limits) Byatarayanapura Assembly Constituency Yelahanka Zone.

Agency : M/S Satya Constructions, No:600, Down Bazar Road, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/02/15-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-05-17

Sample ID No : 2017-05-26-06-04

Sample Type/Size : Solid concrete blocks of size (400X150X200)mm

Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)

Date of test : 27-05-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	400	150	202	12120	25.432	2098.3	2052.1	Not less than 1800Kg/m ³
2	401	152	201	12251	24.987	2039.5		
3	401	151	200	12110	24.443	2018.4		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	27.243	25.340	7.51	6.94	Shall not be more than 10% by mass
2	27.453	25.780	6.49		
3	26.980	25.260	6.81		



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Certificate No.: T- 4358

Lab ID : CP-2017-05-26-06

Date: 30-05-17

Sample ID No : 2017-05-26-06-04

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	151	200	Length : $\pm 5\text{mm}$ Breadth : $\pm 3\text{mm}$ Height : $\pm 3\text{mm}$
2	402	150	201	
3	400	150	202	
4	400	152	201	
5	404	152	200	
6	403	150	200	
7	402	150	202	
8	400	150	203	
9	401	151	201	
10	402	151	204	
11	400	152	202	
12	400	150	202	
13	401	151	201	
14	400	150	201	
15	402	150	202	
16	403	153	203	
17	402	152	202	
18	401	152	200	
19	402	154	200	
20	401	152	201	
Average of 20	401	151	201	

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Lab ID : CP-2017-05-26-06
Sample ID No : 2017-05-26-06-04

Date: 30-05-17

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	401	151	60551	314.3	5.2	5.6
2	402	150	60300	354.2	5.9	
3	400	150	60000	344.2	5.7	
4	400	152	60800	378.3	6.2	
5	404	152	61408	344.9	5.6	
6	403	150	60450	328.4	5.4	
7	402	150	60300	334.9	5.6	
8	400	150	60000	315.9	5.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-06-09-02 **Date:** 10/06/2017

Customer : Assistant Executive Engineer, Project Sub Division Yelahanka Zone, BBMP, Bangalore.

Address : Project Sub Division Yelahanka Zone, BBMP, Bangalore.

Project Name : Extension of Reva Engineering College road upto 400mts (BBMP limits) Byatarayanapura Assembly Constituency Yelhanka Zone.

Agency : M/S Satya Constructions, No:600, Down Bazar Road, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/Ynk Zone/WO/02/15-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-05-17

Sample ID No : 2017-06-09-02-01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/06/2017

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	03/06/2017	10/06/2017	150.20 X 150.22 X 150.28	22563	8.446	291.1	12.9	12.6
2	PCC	M15	03/06/2017	10/06/2017	150.21 X 150.24 X 150.29	22568	8.399	286.6	12.7	
3	PCC	M15	03/06/2017	10/06/2017	150.24 X 150.18 X 150.22	22563	8.365	275.3	12.2	

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